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AMENDMENTS TO THE CLAIMS WITH MARKINGS TO SHOW CHANGES MADE, AND LISTING OF ALL CLAIMS WITH PROPER IDENTIFIERS

Claims 1-14 (Cancelled)

- 15. (New) A device for an injection molding machine used in the production of foamed plastic molded parts by an injection molding method utilizing a blowing agent comprising:
 - a screw piston supported in an injection cylinder of an injection molding machine defined by a draw-in zone, a compression zone and a metering zone, wherein a diameter of the screw piston downstream following the metering zone is less than a diameter of the piston in the metering zone,
 - permeable mixing elements connected to the screw piston for loading with blowing agent,
 - an inlet unit for supplying the blowing agent through the cylinder to the mixing elements in locally defined areas.
- (New) The device of claim 15, wherein the mixing elements are connected to the cylinder downstream following the metering zone.
- 17. (New) The device according to claim 15, wherein the blowing agent is introduced to the polymer melt through the mixing elements into defined areas.
- 18. (New) The device according to claim 15, wherein the blowing agent input unit is provided with a bore.

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- 19. (New) The device according to claim 15, wherein the mixing elements are from sintered-metal or ceramic.
- 20. (New) The device according to claim 15, wherein at least one of the mixing elements is constructed as a rotation-symmetrical pin.
- 21. (New) The device according to claim 15, wherein each of the mixing elements is provided with a means for connecting with the screw piston.
- 22. (New) The device according to claim 21, wherein the means for connection with the screw piston includes a threaded bore.
- 23. (New) The device according to claim 15, wherein at least one of the mixing elements is provided with a stepped portion.
- (New) The device according to claim 23, wherein the stepped portion is configured for receiving a seal.
- (New) The device according to claim 224, wherein the seal is from copper or a high heat-proof O-ring.
- 26. (New) The device according to claim 15, wherein the mixing elements include cylinders of varying diameters.
- 27. (New) The device according to claim 15, wherein the mixing elements are configured as a cone or a truncated cone.

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- 28. (New) The device according to claim 15, wherein the mixing elements are configured with a rhomb-shaped or rectangular cross section.
- 29. (New) The device according to claim 15, wherein the mixing elements are configured as a straight prism or an angular prism.